

Name: _____

Date: _____

Algebra 1A Pd: _____

Weekend Word Problem #12: Scientific Notation

The Situation: The Earth is 93,000,000 miles away from the sun. Light travels at an average speed of 670,600,000 miles per hour.

1. Write the distance between the Earth and the sun in proper scientific notation.

2. Write the speed of light in proper scientific notation.

3. Using the formula, **distance = rate x time**, substitute the values for distance and rate and solve for t to find the time (in hours) that it takes for light to travel from the Earth to the sun.

3. Describe your problem solving process. Write at least TWO QUALITY COMPLETE SENTENCES using algebraic terms..

4. (You must at least try the) **CHALLENGE**: What is the speed of light in miles per minute? Show all work.